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Design with Application to High-Rise Building -- Experimental and numerical analysis of post-earthquake behavior for bridge pile groups subject to scour -- Influence of Atmospheric Corrosivity on the Seismic Fragility of Low-code Steel Frame Structures -- Reliability index estimation for existing bridges -- Evaluating the Seismic Reliability of Modular Buildings in Earthquake-Prone Regions Exposed to Repeated Earthquakes -- Contribution of seismic isolation bearing design to seismic toughness of frame-shear wall structure based on FEMA P-58 -- Tying facades of masonry buildings: preliminary experimental results on fuse-based solutions -- Optimizing the Placement of Elastic Springs to Mitigate the Pounding Effect on Adjacent Buildings -- Integration of Life Cycle Assessment in Structural Optimisation of Steel Structures.

Sommario/riassunto

This volume gathers the proceedings of the 3rd International Conference on Resilience, Earthquake Engineering and Structural Health Monitoring (ICONREM), held in Turin, Italy on June 24-28, 2024. The conference fostered new paradigms in the interface of critical infrastructures and the economic and social impact of resilience. The volume covers highly diverse topics, including algorithms for structural health monitoring, bridge dynamics, constitutive modelling under earthquake loading, dynamics of concrete, steel and masonry structures, geotechnical earthquake engineering, optimum design & control in structural dynamics and earthquake engineering, performance-based earthquake engineering, reliability of dynamic systems, repair & retrofit of structures, resilience assessment, seismic isolation, seismic risk and reliability analysis. The contributions, which are published after a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists.